

# Ocean Optics Near Infrared (NIR) NR 2.5 Spectrometer

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⊖ 1 ⊕ C\$44,086<sup>00</sup>

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#### Volume Pricing

Qty 1+	C\$44,086.00 each
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#### Product Downloads

#### General

OceanDirect & OceanView **Software:**

1 ms - 120 s **Integration Time:**

NR-512-2.5-25 **Model Number:**

**Note:**  
Includes manual QR code, software QR code, calibration reports for wavelength and linearity, USB cable, Power Supply, 15-pin accessory cable

SMA905 **Input Port Termination:**

**Grating:**  
Ruled Diffraction Grating: 78 Grooves/mm  
Blazed @ 1300nm

Cross Czerny Turner **Optical Bench:**

## Physical & Mechanical Properties

25 **Slit Width (µm):**

1.17 **Weight (kg):**

182.25 x 109.19 x 46.45 **Dimensions (mm):**

## Optical Properties

6.5 **Spectral Resolution (nm):**

900 - 2450 **Wavelength Range (nm):**

## Sensor

CCD **Type of Sensor:**

## Electrical

Single Scan @ 10 ms: 7200:1 **Signal to Noise S/N Ratio:**

## Hardware & Interface Connectivity

USB, RS-232 **Computer Interface:**

## Threading & Mounting

(3) 4-40 **Mounting Threads:**

## Environmental & Durability Factors

+10 to +35 **Operating Temperature (°C):**

-30 to +70 **Storage Temperature (°C):**

## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

## Product Details

- High Sensitivity for Low-Signal and Complex-Matrix Measurements
- High-Speed Measurements From 900nm Up to 2500nm
- Increased Thermal Stability

Ocean Optics Near Infrared (NIR) NR Spectrometers are engineered for high-sensitivity detection of low-signal and complex-matrix samples, delivering high signal-to-noise ratios across the NIR spectral range up to 2500nm. Optimized optical throughput and configurable integration times enable accurate measurement of weak absorbance and reflectance features in low-concentration analyses. Thermoelectrically stabilized InGaAs detectors with high-gain configurations reduce system noise and enhance signal strength, enabling stable, repeatable, high-sensitivity measurements. Ocean Optics Near Infrared (NIR) NR Spectrometers' high-speed acquisition rates enable rapid spectral capture for time-resolved analysis, in-line process monitoring, and high-throughput measurement environments. These spectrometers are ideal for quantitative moisture analysis, polymer or petrochemical characterization, and pharmaceutical process and quality control.